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# ExamN

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## ExamN the Facts

Testing, Testing. 1, 2, 3. Academic institutions and other organizations often must administer tests to students and staff, employees and other involved persons. This can be a very time consuming process, from the actual creation of the material, to formatting the test, to distributing the test and then finally in grading all of the tests taken. If the test must be administered to different people at different times, this poses greater difficulties. And what if images need to be added as part of the test question or even as part of the answer selection? The time and effort spent in successfully completing the testing process from test creation to grading could be spent more effectively on a variety of other important tasks. To eliminate the tedious process of paper-and-pencil test creation and old methods of distribution and grading, AllofE has created ExamN. ExamN provides users with on-line testing that will simplify all of your testing needs, providing you with accurate, effective results in the most efficient manner possible.

Testing. Testing. 1, 2, 3.  
Get Your Education  
Online.

## ExamN the Method

**eXamN: On-line Testing. Easy Creation, Speedy Results.** ExamN allows users to create an endless variety of tests to be offered on-line. Using just a Web browser, test creators and takers can access tests with ease from any physical location at any time of day. Tests creation can include multiple choice, fill-in-the-blank, essay and any combination of question types. Creators can even upload images as part or all of the test question(s) or answer(s). Test creators have the opportunity to choose questions from older test versions in a corresponding question bank for simple re-creation and editing. When administering tests, creators can assign particular persons to take specified tests and provide test-takers with a time frame in which test taking must be completed. Re-testing can be provided with no hassle as specified by the test administrator.

ExamN is a fully functional, easy-to-use

application that solves all dilemmas in test creation, giving and grading. With simple point-and-click features, test creators can format tests in the manner most conducive to the content, administer the tests with minimal effort and have the luxury of having the tests graded automatically. On-line testing allows test creators to assign point values to specific answers to questions and provides the option of leaving specified questions untouched to be looked at and graded manually at a later date. Test scores can then be given as automatic feedback to test-takers or available to test administrators only. ExamN is a completely secure application, requiring login and password from creators and users. Once logged in, users are then provided a list of tests unique to each individual and all of the information regarding those tests in one location. Creating, administering, grading. ExamN.

## ExamN the Features

**Complex Question Formatting.** There are no limits to formatting your tests with ExamN. From multiple choice or essay questions to combination tests, the possibilities are endless. The user friendly interface guides the user through adding questions and equations, selecting formats, entering answers, and entering points per answer. And the best part is on-line testing makes complex equation building quick and simple with more accurate answers.

- ▶▶ Insert complex equations and automatically calculate a precise answer.
- ▶▶ Define the precision to which the answer must be correct allowing for variations due to rounding.

- ▶▶ Generate numbers / variables within the test equation randomly so each time a student takes a test, the numbers will be different.
- ▶▶ Assign different ranges and increments for each of your random numbers increasing the possible combinations and decreasing the ability for students to copy answers.
- ▶▶ Automatically validate your answer equations for missing parentheses and brackets and invalid characters.
- ▶▶ Create multiple choice questions with either dropdown boxes or radio buttons to vary the look and feel of your tests.
- ▶▶ Insert questions that allow students to select multiple answers and even give partial credit.
- ▶▶ Add short answer questions with answer format validation for integers, floating point numbers, etc. to ensure easier and more accurate test grading.
- ▶▶ Use large text areas for essay questions to allow extra space and provide better formatting.
- ▶▶ Add a diagram or image to any question and separate images to each possible answer allowing you to have completely graphical questions and answers.

**Infinite Question Banks and Archives.** The most time consuming aspect of test creation is coming up with the questions. ExamN alleviates this problem by providing test archives and question banks. Creators can quickly search for existing tests and questions by school and subject. They then pick the questions they want and insert them into the test. It is that simple - search, upload, customize, and edit.

- ▶▶ Organize questions and tests based upon category, subject, school, grade level, com-

plexity, etc.

- ▶▶ Copy existing tests to quickly duplicate all questions and then customize it as you see fit.
- ▶▶ Add your own questions or select questions from the question bank.
- ▶▶ Quickly search for questions by school, subject, existing test, etc.
- ▶▶ Pick as many questions as you want from the search results and upload them to your test at the click of a button.
- ▶▶ Maintain an accurate question bank by restricting who can insert questions into it.
- ▶▶ Ensure correct answers by using existing questions from the accurate question bank.
- ▶▶ Reuse existing equations and just modify the variable ranges to change the possible answers.
- ▶▶ Use the equation creator to generate random numbers for your questions and automatically calculate answers based on those random numbers.

**Simply Assigning Takers.** On-line testing provides you with the ability to create test-taking groups. Each group can be assigned its own date range to take the test and number of retakes for the test. This allows students and test-takers to take tests over a period of time and then provides them with the opportunity to improve their score through retakes.

- ▶▶ Assign multiple students to take tests in a given time period, limiting who can take the test and when it can be taken.
- ▶▶ Create multiple test taking groups so that students / classes have the test available at different times.
- ▶▶ Know at any given time who is assigned to take a test and the last date it will be available for them.

- ▶▶ Give the test to a set of students and then allow them to retake it at a later time.
- ▶▶ Provide students with the opportunity to immediately retake the test in order to improve their score.
- ▶▶ Automatically put tests in the students test queue based on assignment and date range so that when they login, they see all of the tests assigned to them.
- ▶▶ Display in the test queue the number of times the test has been taken along with the number of available retakes.

**Automatic Test Grading.** Online Testing takes the tediousness out of test grading by grading them for you. You can create full, partial, or no automatic graded tests. And the system will keep track of which ones still have questions that need to be graded. It gives you the flexibility to specify which questions you want it to grade and which ones you want to manually grade.

- ▶▶ Define whether you want the system to automatically grade each question in a test.
- ▶▶ Assign points to each possible answer allowing you to give partial credit.
- ▶▶ Provide the correct answer or for equations allow the system to calculate it for you.
- ▶▶ Define the precision to which numerical answers must have to be considered correct.
- ▶▶ Assign precision as an absolute value or as a percentage to allow for rounding.
- ▶▶ Go through tests and allocate points to manual graded questions and the system will recalculate the overall score.
- ▶▶ Manually adjust points to any pre-graded question.
- ▶▶ Give students the ability to see their

scores for automatically graded questions.

- ▶▶ Automatically display whether the student received full, partial, or no credit for each test question.

**Comprehensive Result Reporting.** The extensive reporting functionality provides users with immediate result feedback in multiple formats such as spreadsheets, graphs, and summaries. They can quickly find results for students, tests, questions, and scores.

- ▶▶ Allow students to see their results immediately after finishing a test.

- ▶▶ View all given responses for each test question per student with a grade summary.

- ▶▶ See test details for any student directly from the test reports.

- ▶▶ View a summary of results for each test question and automatically calculate the frequency of each answer given for the question.

- ▶▶ Access grade summaries for each of your students with automatically calculated percentages for each test taken.

- ▶▶ View a scores summary for any test with points possible and points achieved broken down by each test.

## ExamN the Benefits

From extensive time saving to increased efficiency in the work place, ExamN provides immediate ROI to its users. It takes the tediousness out of test creation and grading and ensures better accuracy for the test results. Test creation couldn't be easier. And not only are there infinite benefits for test creators, but it makes test taking easier through testing queues and answer

validation. ExamN enhances the overall testing experience for everyone.

- ▶▶ **Save Time** :: Significantly reduce test creation time by using existing questions and answers from test archives and question banks. From one simple interface you can search, select, and copy questions and answers for your test.

- ▶▶ **Ensure Accuracy** :: Ensure question and answer accuracy by using existing pre-approved questions. Through a well maintained question bank and automatic grading you can rest assured that test scores are more accurate than ever before.

- ▶▶ **Automatically Grade** :: Turn on automatic grading for any of your test questions. The system grades those questions and then lets you know which tests have manual grade questions that still need grading. This gives you more time to review those essay and open ended questions.

- ▶▶ **Set Limits** :: Designate a date range that the test will be available so that students take the test when and only when you want them to. This will provide students access to the test at the exact same time and ensure the test is completed at the appropriate time.

- ▶▶ **Increase Awareness** :: Assign tests to student's test queues so they know what needs to be taken. When the student logs in, they will immediately get a comprehensive list of all tests available for them to take along with a summary of test availability and retake criteria.

- ▶▶ **Validate Answers** :: Ensure correct formats for answers by assigning automatic validation for questions. Pick from different number formats such as integer or floating point and then define whether the question requires an answer. The system will automatically notify the test taker of any invalid entries and require correction.

▶▶ Provide Feedback :: Give students immediate feedback and allow them to retake tests within a specific time frame. Once the test is complete, the student will receive a detailed summary of questions, available answers, correct answers, and their answers. They will know which questions they received credit, no credit, and partial credit for.

▶▶ Reduce Cheating :: Use equations that randomly populate the variables within a question. This ensures that students will not all have the exact same test questions but will have the same question formats. The system will keep track of the numbers used in the question and automatically calculate the correct answer.

▶▶ Calculate Grades :: Generate grade reports for students and tests, and then view detailed summaries of test questions, points allotted, and points achieved. The application offers multiple report formats all with automatic grade calculation and result exporting capabilities.

▶▶ Increase Efficiency :: Let the system do all calculations for you – you don't have to calculate mathematical answers, test grade percentages, or overall student scores ever again. By reducing the human error aspect of grading you will eliminate the time and effort hassles of re-grading and re-calculating.



## ExamN In Use

Basehor-Linwood USD #458 is a combined district that serves the communities of Basehor and Linwood as well as an extensive rural population from the surrounding areas. The district consists of two elementary schools, one middle school, and one high school. The schools are dedicated to creating and developing alternative approaches to delivering educational processes through the use of current and emerging technologies. They, therefore, selected AllofE to develop a state-of-the-art, online testing system. The system provides them with a tool to create and track web-based learning and testing. Students, faculty, and staff have access to the system from anywhere and at anytime, allowing them to setup and take tests, provide automatic grading, and monitor results.

## ExamN the Process

School: Valley View North Subject: Operations

Question:

**Filter Question Bank by School and Subject**

A total of \$450 is divided into equal shares. If Kate receives four shares, Kevin receives three shares, and Anna receives the remaining two shares, how much money did Kevin receive?

- \$100
- \$150
- \$200
- \$250

**Select the Questions to add to your test.**

Linda paid \$48 for a jacket that was on sale for 25% of the original price. What was the original price of the jacket?

- \$60
- \$72
- \$96
- \$192

In a hockey league, 87 players play on seven different teams. Each team has at least 12 players. What is the largest possible number of players on any one team?

- 13
- 14
- 15
- 21

**Click to Import the Questions**

Question Banks

From the question bank, you can filter questions based on school, subject, and question keywords. You then select the ones you want and click to Import the Questions. Once imported, you can use them “as-is” or modify and customize them to meet your needs.

**Upload a diagram for the question.**

Diagram:

Questions: Which graph below would match the situation described? A car accelerates from a stop to 22

Start input on new line?:

Require answer?:

**Enter available answers. Upload images for the answers.**

Answer Text:

Image In Answer:

Point Value:

Number of Columns:

**Assign Points to each answer.**

image.Graph.A.0  
image.Graph.B.0

Question Types

Insert new questions into your tests quickly and easily. Choose from multiple formats such as dropdown answer, radio buttons, checkboxes, text boxes, and text areas. Insert equations, question diagrams, and images for each available answer. Then assign points to each answer for automatic grading.

Diagram:  Browse...

Question: What is the length of the hypotenuse of a right triangle with the following sides: [a]

Start input on new line?:  **Define variables within your questions.**

Require answer?:

Size:  **Enter the precision to grade correct answers.**

Point Value:

Answer Precision:  absolute

**Enter the Equation for the Answer.**

$\sqrt{[a]^2+[b]^2}$

1/x	ln	e^x	log	10^x	log2	2^x	x	<-
sin	cos	tan	7	8	9	÷	sqrt	x^2
asin	acos	atan	4	5	6	×	x^3	x^y
pi	nl	Mod	1	2	3	-	(	)
And	Or	Xor	0	.	+	AC		

Variable:

Range:  to

Increment:

> < <<

a:1 to 10, increment 1  
b:1 to 10, increment 1

**Define variables, ranges, and increment values for randomly generated question values.**

Save Add

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Use the equation builder for your mathematical problem questions. With this interface you never have to calculate the answers yourself. It provides a way to randomly insert variables into your questions so that the question and answer is different each time a student clicks to take the test.

Publish Tests

Time Remaining: 12:16

Find the slope of the line that contains ( 5, 2 ) and ( 2, 2 ).

Randomly Generated Numbers

Limit test taking time.

Which graph below would match the situation described?

A car accelerates from a stop to 22 mph in the first 5 seconds, maintains that speed for 5 seconds, and then accelerates to 49 mph.

a b

Images as Answers

Graph a: speed(mph) vs time(sec). The graph shows a line from (0,0) to (5,22), a horizontal line at 22 mph from t=5 to t=10, and a line from (10,22) to (15,49).

Graph b: speed(mph) vs time(sec). The graph shows a line from (0,0) to (5,22), a horizontal line at 22 mph from t=5 to t=10, and a line from (10,22) to (15,49).

When you have completed creating the test, publish it for students to take. The published test will automatically insert question and answer diagrams as well as post the possible points for each question.

Test Queue

Surveys Tests

Jeff Miller you have 2 tests available to be taken at this time.

**Listing of Tests ready for the student to take.**

Test	Available From	Available To	Number of Times Taken	Number of Retakes Allowed	Remaining Times Allowed
Elementary History I	Nov 01, 2003	Nov 30, 2003	2	3	2
conversion test	Nov 24, 2003	Nov 30, 2003	0	0	1

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Once the test is published, you can assign it to your students and specify the date range for when it will be available. When the students login to the system, they will see the tests that are available for them to take, the number of times they have taken it, and the number of retakes allowed.

Automatic  
Grading

**Automatically graded test results.** Results for Jeff Miller  
Submitted: Nov 25, 2003 04:51 pm  
Grade: 60/85 (70.59%)

Correct Answer - Points Awarded: 10

Points Received for the question.

Which year had the highest production? (10)

Your Answer: 2002

Correct Answer: 2002

Correct answer and answer given by the student.

Incorrect Answer - Points Awarded: 0

Linda paid \$48 for a jacket that was on sale for 25% of the original price. What was the original price of the jacket? (10)

Your Answer: \$96

If you define points for each answer when creating the test, the application will automatically grade the questions. It calculates full, partial, and no credit for each question and will display the results to the student once the test is complete.

Reporting

Jeff Miller

Test	Score	Grade	Date	Action
Elementary History I	1 out of 2	50%	Nov 13, 2003 03:32 pm	<a href="#">View</a>
Elementary History I	2 out of 2	100%	Nov 13, 2003 03:32 pm	<a href="#">View</a>
conversion test	30 out of 85	35%	Nov 20, 2003 03:39 pm	<a href="#">View</a>
conversion test	35 out of 85	41%	Nov 20, 2003 03:39 pm	<a href="#">View</a>
	60 out of 85	70%	Nov 20, 2003 03:14 pm	<a href="#">View</a>
	2 out of 2	100%	Nov 20, 2003 03:15 pm	<a href="#">View</a>
	1 out of 2	50%	Nov 20, 2003 03:40 pm	<a href="#">View</a>
	1 out of 2	50%	Nov 20, 2003 03:40 pm	<a href="#">View</a>
	2 out of 2	100%	Nov 20, 2003 03:40 pm	<a href="#">View</a>
	1.5 out of 2	75%	Nov 20, 2003 03:40 pm	<a href="#">View</a>
Elementary History I	2 out of 2	100%	Nov 20, 2003 03:40 pm	<a href="#">View</a>
Elementary History I	0 out of 2	0%	Nov 20, 2003 03:41 pm	<a href="#">View</a>
Elementary History I	1 out of 2	50%	Nov 21, 2003 03:24 pm	<a href="#">View</a>
Elementary History I	1 out of 2	50%	Nov 21, 2003 03:24 pm	<a href="#">View</a>
conversion test	60 out of 85	70%	Nov 25, 2003 04:51 pm	<a href="#">View</a>

Print test score details for a student.

[Back to Reports](#) **View each test.**

Print multiple reports for students and tests with the ability to view test details and export results. You can view reports on everything from student test score summaries to test result summaries. Each one details scores, grades, and answers provided on a per student and per test basis. You can then click to view the actual test.

## ExamN the Outcome

With ExamN, the savings generated through the process of test creation, distribution and grading are endless. No longer does question development and formatting require extensive effort for the creation of appealing, easy-to-use layout and content. The hassle of distributing multiple forms of multiple tests to multiple test-takers is eliminated. The process of manually grading individual tests one at a time is replaced with a much more efficient and effortless system. In the end, ExamN allows creators to do their job at a faster rate producing more effective results. It also saves both time and effort in distribution and grading. Test-takers are provided a single location for taking all tests that is accessible anytime, anywhere through the Web. And test results can even be generated automatically on the spot. No hassles, no time conflicts, no wait. Implement ExamN today and achieve comprehensive testing results tomorrow.



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